

# Navajo Abandoned Uranium Mine Site Screen Report

*This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits and pits. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites lands not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands but that are or may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.*

*The purpose of the form is to ascertain the status and location of the identified AUM site, to record all immediate site information associated with the mine site and to document the recommendation and/or decision on what additional steps, if any, are needed at the site.*

## **Red Point Lode AUM Site**

## **Navajo AUM Eastern Region**

**Prepared by:**

**Weston Solutions, Inc.**

**Contract: W91238-06-F-0083**

**12767.063.496.1111**

**May 2009**

**Part I Site Identification, Location and Status****Site Names and ID numbers as applicable****Mine ID:** 347**Map ID:** E86**CERCLIS:** NNN 000 908 733**NAMLRP:** NOT ASSIGNED**New Mexico Mining and Mineral Division ID:** NM0161**New Mexico Mining and Mineral Division ID:** NMMK0138**Local name / Aliases:** Red Point, R.M. Shaw**Chapter and local area:** Baca/Haystack**Lat/Long:** 35.356164565 N / -107.908443723 W**Nearby road and highway:** Haystack Rd, Interstate 40 **Local Post Office:** Prewitt, NM**Land Status: check one or more and provide ownership and contact information below**

|                            |                                     |
|----------------------------|-------------------------------------|
| <b>Tribal Trust Land</b>   | <input type="checkbox"/>            |
| <b>Tribal Fee Land</b>     | <input type="checkbox"/>            |
| <b>Allotment</b>           | <input type="checkbox"/>            |
| <b>Fee land</b>            | <input type="checkbox"/>            |
| <b>Public lands</b>        | <input type="checkbox"/>            |
| <b>Private</b>             | <input type="checkbox"/>            |
| <b>Bureau of Land Mgmt</b> | <input type="checkbox"/>            |
| <b>State</b>               | <input checked="" type="checkbox"/> |

**Ownership and contact information:**

No ownership was identified. The mine site property is classified as State of New Mexico land.

## **Part II            Site Observations**

**Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:**

**0 to 200 feet:** None                      **200 feet to 0.25 mile:** None

**Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:**

**0 to 200 feet:** None                      **200 feet to 0.25 mile:** None

**Levels measured around the perimeter(s) of the identified structure(s):**

None

**Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:**

**0 to 0.25 miles:** None                      **0.25 miles to 4 miles:** None

**Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.**

None observed

**Known Site History: include information from interviews with Chapter officials and residents.**

**Note information on mine ownership, period of operation, and type of mining operation.**

Red Point Lode mine consists of an area of 7,399.89 square meters. Any historical information pertaining to mining operations and historical ownership of the mine site appeared to be unclear. The New Mexico Mining and Minerals Division identified the operator from 1952-1955 as R.M. Shaw.

**Part III      Type, number and reclamation status of mine features**

**Provide description and reclamation status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all reclamation caps.**

Reclamation status of the mine site is currently unknown. Small gravel/rock piles and pits were observed throughout the site property (Photo 2, 3). No adits or other mine features were observed during the site visit.

**Part IV      Summary of radiological readings****Background Locations**

#1 10,938 cpm

#2 9,845 cpm

#3 7,989 cpm

**Mine site:** Red Point Lode

- See Figures 1 and 2

**Nearby Structure Perimeter** – None

**Describe any other radiological measurements:**

A total of 565 gamma radiation measurements were collected from mine sites, ranging from 6,195 cpm to 149,417 cpm. The measurements are represented in Figures 1 and 2. The New Mexico Mining and Minerals Division identified radiological measurements with background levels 50 counts per second (cps); pits 3,800 cps, and dumps 1,500 cps. Radiological measurements collected for the New Mexico Mining and Minerals Division during a 2008 field screening survey found gamma radiation levels near the ground surface with a maximum of 420 micro Roentgen per hour ( $\mu\text{R/hr}$ ) and a minimum of 12  $\mu\text{R/hr}$ , levels at the 4-foot elevation with a maximum of 200  $\mu\text{R/hr}$  and a minimum of 12  $\mu\text{R/hr}$ , and background levels of 12  $\mu\text{R/hr}$ .

**Part V            Site sketch of all mine features and readings, including locations of all structures, sources of drinking water and any other important features and radiological readings.**

Presented in Figures 1 and 2

## **Part VI        Response Action Summary**

**Site Name(s):** Red Point Lode        **Chapter:** Baca/Haystack

### **Decision Criteria**

**Is there an unreclaimed waste pile at the site?** Several small gravel / rock pile were observed

**At what distance from the waste pile is the nearest residential structure located?** N/A

**At what distances from the waste pile are there potential drinking water sources?** N/A

**Is there a reclamation cap or sealed adit in place at the site?** No

**Is the cap/seal functionally intact?** N/A

**Is the cap/seal sufficiently degraded to create a concern about releases?** N/A

**At what distance from the cap/seal is the nearest domestic structure located?** N/A

**At what distance from the cap/seal is the nearest domestic drinking water source?** N/A

### **Summary of emergency response factors**

None

### **Summary hazard ranking system factors**

None

### **Summary of reclamation factors**

No known reclamation

## Part VII      Photos



Photo 1. Red Point Lode mine site, to the north



Photo 2. Red Point Lode mine site rock piles, to the east



Photo 3. Red Point Lode mine site rock piles and ditch, to the southwest



**Part VIII      Contacts Reports and Information**Name Stanley EdisonTitle or official role (if any) Navajo EPA Superfund ProgramAddress PO Box 2946, Window Rock, AZ 86515Telephone number 928-871-6861Information provided General Background and Contact/Access Information

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Name Susan A. Lucas KamatTitle or official role (if any) AUM Data Manager – New Mexico Mining & Mineral DivisionTelephone number (505) 476-3408 fx: (505) 476-3408Information provided Background information and findings from 2008 New Mexico MMD  
Survey of mining sites.

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Name \_\_\_\_\_

Title or official role (if any) \_\_\_\_\_

Telephone number \_\_\_\_\_

Information provided \_\_\_\_\_

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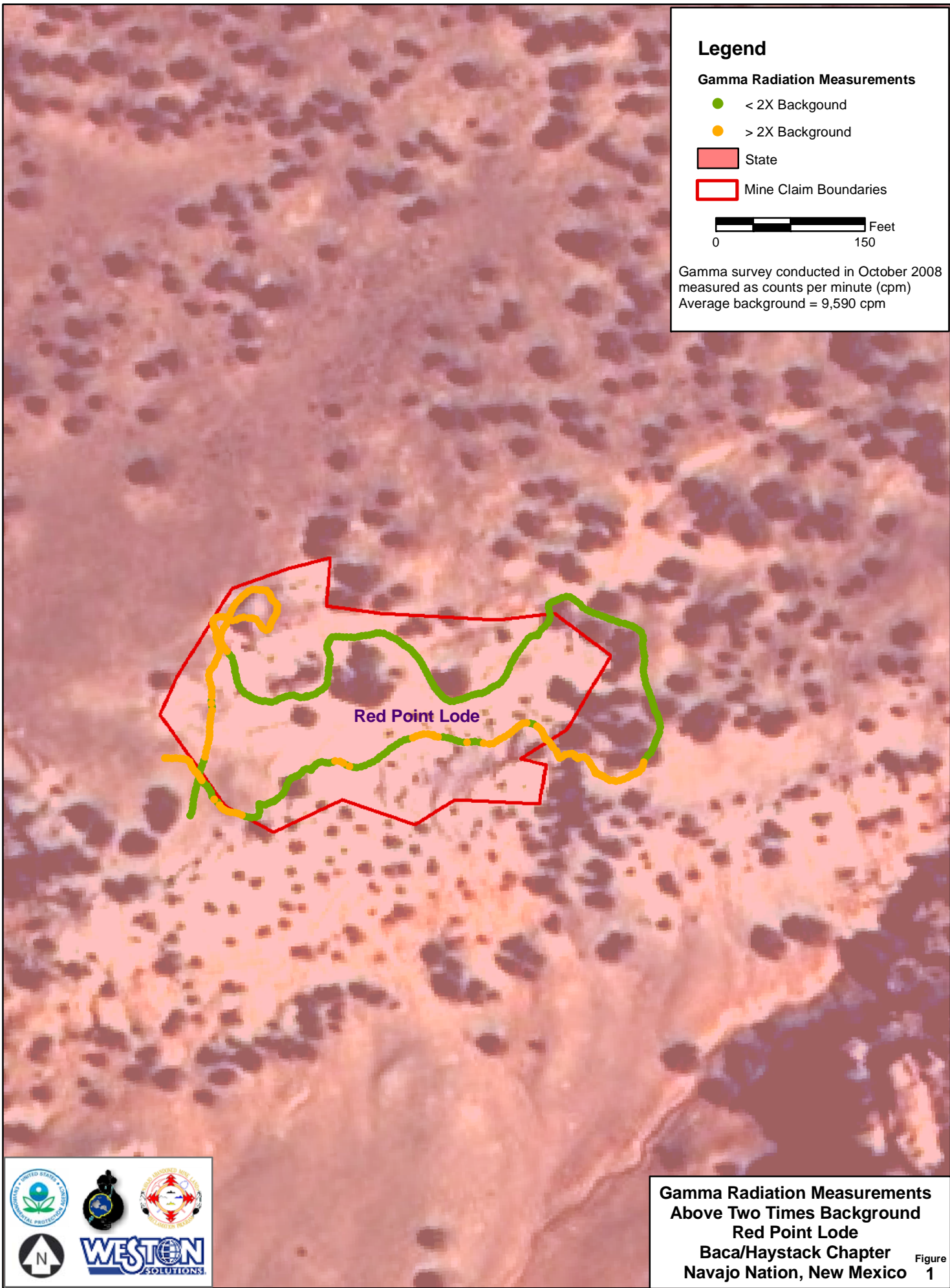
Name \_\_\_\_\_

Title or official role (if any) \_\_\_\_\_

Telephone number \_\_\_\_\_

Information provided \_\_\_\_\_

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**Gamma Radiation Measurements  
Above Two Times Background  
Red Point Lode  
Baca/Haystack Chapter  
Navajo Nation, New Mexico**

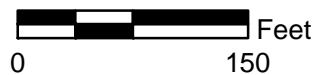
Figure 1

**Legend**

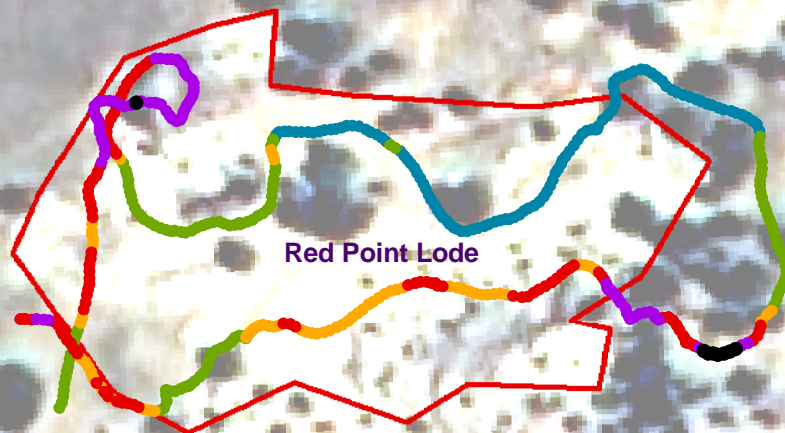
**Gamma Radiation Measurements**

- 0 - 10,000
- 10,000 - 15,000
- 15,000 - 20,000
- 20,000 - 50,000
- 50,000 - 100,000
- > 100,000

 Mine Claim Boundaries



Gamma survey conducted in October 2008  
measured as counts per minute



**Gamma Radiation Measurements  
Red Point Lode  
Baca/Haystack Chapter  
Navajo Nation, New Mexico**